

TABLE 1
EXISTING AMBIENT SEDIMENT QUALITY DATA
ROSS ISLAND SAND & GRAVEL CO.

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	HC-1	HC-2A	HC-2B	HC-SS02	HC-SS03	HC-SS24	HC-SS29	HC-SS30	HC-SS31	HC-SS32	HC-SS33	PA03	PA04
Semivolatile Organics (µg/kg)													
Naphthalene	NT	NT	3.3 J	50 U	3 J	3 J							
Acenaphthylene	NT	NT	3.2 J	50 U	10 U	10 U							
Acenaphthene	NT	NT	16 U	50 U	10 U	10 U							
Fluorene	NT	NT	16 U	50 U	10 U	10 U							
Phenanthrene	NT	NT	4.3 J	50 U	60	10 J	7 J						
Anthracene	NT	NT	16 U	50 U	1 J	1 J							
2-Methylnaphthalene	NT	NT	NT	50 U	2 J	1 J							
Fluoranthene	NT	NT	5.6 J	50 U	69	50 U	98	17	14				
Pyrene	NT	NT	10 J	50 U	67	50 U	89	20	16				
Benzo(a)anthracene	NT	NT	4.8 J	50 U	7 J	6 J							
Chrysene	NT	NT	5.1 J	50 U	9 J	8 J							
Benzofluoranthenes	NT	NT	11.7	50 U	13 J	13 J							
Benzo(a)pyrene	NT	NT	13 J	50 U	8 J	6							
Indeno(1,2,3-cd)pyrene	NT	NT	12 J	50 U	7	6 J							
Dibenzo(a,h)anthracene	NT	NT	16 U	50 U	5 U	5 U							
Benzo(g,h,i)perylene	NT	NT	45	50 U	7	8							
Dibenzofuran	NT	NT	16 U	50 U	5 U	5 U							
Bis(2-ethylhexyl)phthalate	NT	NT	310 U	350	420	100 U	100 U	100 U	100 U	120	100 U	200 U	120
Phenol	NT	NT	46 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U
Polychlorinated Biphenyl (PCB) (µg/kg)													
Aroclor 1248	14 U	15 U	16 U	10 U									
Aroclor 1254	14 U	15 U	16 U	10 U	12	10 U	8 J	5 J					
Aroclor 1260	14 U	15 U	16 U	10 U									
Total PCBs	28 U	29 U	31 U	20 U	12	20 U	8 J	5 J					
Pesticides (µg/kg)													
p,p'-DDE	1.4 U	1.5 U	1.6 U	2.3 U	0.8 J	0.6 J							
p,p'-DDD	1.4 U	1.5 U	1.6 U	3.3 U	0.5 J	0.5 J							
p,p'-DDT	1.4 U	1.5 U	0.73 J	6.7 U	1 J	0.6 J							
Aldrin	1.4 U	1.5 U	1.6 U	NT	2 U	2 U							
Chlordane	1.4 U	1.5 U	1.6 U	NT	2 U	2 U							
Dieldrin	1.4 U	1.5 U	1.6 U	NT	0.3 J	2 U							
Heptachlor	1.4 U	1.5 U	1.6 U	NT	2 U	2 U							
Tributyltin (pore water) (µg/L)	NT	NT	0.07	0.02 UJ	0.02 UJ	0.05 UJ	0.04 UJ	0.02 UJ	0.04 U	0.05 U	0.05 U	NT	NT
Metals (mg/kg)													
Antimony	NT	NT	0.47 J	2.28 UJ	2.46 UJ	2.49 UJ	2.49 UJ	2.5 UJ	2.49 UJ	2.52 UJ	2.39 UJ	0.12 J	0.08 J
Arsenic	NT	NT	2.7	2.28 U	2.46 U	2.49 U	2.49 U	2.5 U	2.49 U	2.52 U	2.39 U	3.09	3
Cadmium	NT	NT	0.07	0.27 UJ	0.3 UJ	0.3 U	0.3 UJ	0.3 UJ	0.3 UJ	0.29 UJ	0.16	0.08 U	
Copper	NT	NT	15.4	24.2	26.8	16.6 J	17.3	15 U	16.2	21	15	24.8	25.8
Chromium	NT	NT	16.8	NT	23.1	20.1							
Lead	NT	NT	5.24	11.2	17.9	5.1	5.53	4.56	5.43	9.69	5.77	12.1	11.8
Mercury	NT	NT	0.02	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.06
Nickel	NT	NT	18.5	21.2 J	20.1 J	17.1 J	21.4 J	14.3 J	21.6 J	18.2 J	17.6 J	23.6	20.2
Silver	NT	NT	0.1	0.26	0.38	0.2 U	0.19 U	0.16	0.28				
Zinc	NT	NT	49.7	71.1 J	76.9 J	43.8 J	58 J	49.8 J	61.7 J	60.5 J	48.6 J	80.7	78.7
PETROLEUM HYDROCARBONS (mg/kg)													
Gasoline (b)	14 U	14 U	NT	10 UJ	20 U	10 U	NT	NT					
Diesel (b)	14 U	14 U	NT	10 U	20 U	10 U	NT	NT					
Heavy Oil (b)	34 U	35 U	NT	25 U	50 U	25 U	NT	NT					

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Notes: 1.) Detected constituents are indicated by bold-face type.
2.) Bold-face type/boxed values indicate the lowest concentration among the calculated ambient concentration, and screening levels.

(a) Toxicity and bioaccumulation screening levels from DEQ Ross Island Fill Evaluation Fact Sheet received on January 16, 2003.

(b) As of January 20, 2003, DEQ is still in the process of deciding whether the 80 ppm toxicity screening level applies to each type of petroleum or the sum of all three types.

NT = Not tested.

U = Nondetect.

J = Estimated value.

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HS-1	HS-2	HS-3	HS-4	HS-5	Calculated Ambient Concentration	Toxicity Screening Level (a)	Bioaccum. Screening Level (a)
2.51 U	2.68	2.1 U	2.3 U	1.64 U	3.3	200	none
4.08	6.28 J	2.68	3.71	1.64 U	6.28	40	13577000
2.51 U	1.89 U	2.1 U	2.3 U	1.64 U	2	60	140000
2.51 U	1.89 U	2.1 U	2.3 U	1.64 U	2	20	94000
2.51 U	1.89 U	2.1 U	2.3 U	4.96	60	40	13577000
2.51 U	1.89 U	2.1 U	2.3 U	1.64 U	2	60	4100000
2.51 U	1.89 U	2.1 U	2.3 U	1.64 U	2	20	none
4.79	7.16 J	5.4	5.23	12.2	98	100	70000
7.86	8.16	8.37	6.05	9.32	89	50	53000
5.02 U	3.78 U	4.2 U	4.59 U	3.28 U	7	30	5
5.02 U	3.78 U	4.2 U	4.59 U	3.28 U	9	60	500
13.8	3.78 UJ	4.2 U	8.85	8.57	13.8	30	50
5.08	1.89 UJ	2.1 U	2.68	5.17	13	30	1
2.51 U	1.89 U	2.1 U	2.3 U	1.64 U	12	20	5
2.51 U	1.89 U	2.1 U	2.3 U	1.64 U	2	60	1
2.51 U	1.89 U	2.1 U	2.3 U	1.64 U	45	60	1018000
25.1 U	18.9 U	21 U	23 U	16.4 U	20	1000	4400
33 U	54 U	48.5 U	30.2 U	46.2 U	420	20	none
25.1 U	18.9 U	21 U	23 U	16.4 U	20	10	none
19.2 U	14.3 U	16 U	16 U	11.8 U	10	30	10
19.2 U	14.3 U	16 U	16 U	11.8 U	12	600	10
19.2 U	14.3 U	16 U	16 U	11.8 U	10	10	10
38.4 U	28.6 U	32 U	32 U	23.7 U	20	30	none
3.84 U	2.86 U	3.2 U	3.2 U	2.37 U	2	2	2
3.84 U	2.86 U	3.2 U	3.2 U	2.37 U	2	4	2
3.84 U	2.86 U	3.2 U	3.2 U	2.37 U	2	4	2
1.92 U	1.43 U	1.6 U	1.6 U	1.18 U	2	8	1
19.2 U	14.3 U	16 U	16 U	11.8 U	2	10	10
3.84 U	2.86 U	3.2 U	3.2 U	2.37 U	2	3	2
1.92 U	1.43 U	1.6 U	1.6 U	1.18 U	2	2	1
0.00816 U	0.0149 UJ	0.0102 U	0.00879 U	0.0175 U	0.07	0.064	800
0.904	0.651 U	0.837 U	0.814 U	0.645 U	0.90	4.00	none
3.69	2.78	3.31	3.24	2.19	2.80	10.00	10.00
0.339 U	0.261 U	0.335 U	0.325 U	0.258 U	0.16	0.60	0.60
32	19.4	21.6	27.9	18.8	23.00	36.00	18.00
24.5	19	21.3	25.1	13.9	25.10	86.00	86.00
9.86	7.13	8.4	9.28	8	10.00	35.00	8.90
0.0606	0.0328 J	0.0461	0.0516	0.031 J	0.061	0.200	0.180
19.9	19.4	18.4	21	14	20.00	20.00	42.70
0.846 U	0.651 U	0.837 U	0.814 U	0.645 U	0.38	1.00	0.38
69.3	57.5	64.8	72.3	57.8	68.00	129.00	129.00
NT	NT	NT	NT	NT	10.00	80.00	none
46.2 U	35.1 U	38.8 UJ	40.1 U	31.9 U	10.00	80.00	none
154	70.7	93.7 J	93.7	63.7 U	154.00	80.00	none

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